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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/798,053	03/11/2004	Yam Mo Wong	P/4076-70	4977
2352	7590	07/12/2006		EXAMINER
OSTROLENK FABER GERB & SOFFEN				CHAMBLISS, ALONZO
1180 AVENUE OF THE AMERICAS				
NEW YORK, NY 100368403			ART UNIT	PAPER NUMBER
			2814	

DATE MAILED: 07/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/798,053	WONG ET AL.
	Examiner Alonzo Chambliss	Art Unit 2814

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 05 April 2006.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-14 and 16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-14 and 16 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____

DETAILED ACTION

1. The amendment filed on 4/5/06 has been fully considered and made of record in the application.

Response to Arguments

2. Applicant's arguments, see remarks, filed 4/5/06, with respect to the rejection(s) of claim(s) 1-15 under 102(e) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Manning et al. (US 6,602,778).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-5, 8-14, and 16 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Manning et al. (US 6,602,778).

With respect to Claims 1, 9, and 16, Manning teaches a bond pad 121b, a wire 250b, a connection pad 121a, and a wire bond connecting the to the connection pad 121a. Forming a first stitch bond 270aa on the connection pad 121a and forming a

second stitch bond 270b on the connection pad 121a that is contiguous (i.e. touching throughout in an unbroken sequence) with the first stitch bond 270aa (see col. 5 lines 40-58; Fig. 3B).

With respect to Claims 2 and 10, Manning teaches wherein the second stitch bond partially lies on the first stitch bond and partially lies on (i.e. attached to) the connection pad since the second stitch does not completely cover the connection pad (see Figs. 3B and 5).

With respect to Claim 3 and 11, Manning teaches wherein a position of the second stitch bond is offset (i.e. to place over against the first stitch) from a position of the first stitch bond (see Fig. 3B).

With respect to Claim 4 and 12, Manning teaches arranging the second stitch bond such that it is oriented in a different direction relative to the orientation of the first stitch bond (see Figs. 3B).

With respect to Claims 5 and 13, Manning teaches arranging the second stitch bond such that it is oriented in a different direction relative to a length of wire connected to the wire bond of stitch (see Fig. 3B).

With respect to Claims 8 and 14, Manning teaches forming an additional stitch bond 270a on the connection pad that is contiguous with the first stitch bond or second stitch bond (see Fig. 3B).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Manning et al. (US 6,602,778) as applied to claim 1 above, and further in view of Arakawa (US 6,774,494).

With respect to Claims 6 and 7, Manning disclose a reverse motion wire formation direction that is different to a direction that the first stitch bond is oriented after making the first stitch bond and before making the second bond. Also, the wire formation direction is opposite to the reverse motion direction to a second stitch bonding position to form the second stitch bond see col. 5 lines 40-58; Fig. 3B). Manning does not explicitly disclose wherein the wire is fed from a capillary. However, it is well known

in the semiconductor industry when attaching a wire to a connection to feed the wire from a capillary as evident by Arakawa (see Figs. 1-15). Thus, Manning and Arakawa have the same environment of a wire stitch bonded to a connection pad. Therefore, one skilled in the art at the time of the invention to incorporate a capillary to feed the wire on the connection pad of Manning, since the capillary would facilitate the connection between the wire and the connection pad as taught by Arakawa.

The prior art made of record and not relied upon is cited primarily to show the product/process of the instant invention.

Conclusion

7. Any inquiry concerning the communication or earlier communications from the examiner should be directed to Alonzo Chambliss whose telephone number is (571) 272-1927.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-7956

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system Status information for published applications may be obtained from either Private PMR or Public PMR. Status information for unpublished applications is available through Private PMR only. For more information about the PMR system see <http://pair-dkect.uspto.gov>. Should you

have questions on access to the Private PMR system contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or EBC_Support@uspto.gov.

AC/July 9, 2006



Alonzo Chambliss
Primary Patent Examiner
Art Unit 2814